



SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

**DECLARATION FOR PATENT APPLICATION**

As a below named inventor I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SEMICONDUCTOR FABRICATION USING A COLLAR.**

The specification of which was filed on February 27, 2004 as application serial no. 10/788,977.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56 (see page 3 attached hereto).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

**No such claim for priority is being made at this time.**

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

**No such claim for priority is being made at this time.**

I hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application.

**No such claim for priority is being made at this time.**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : Kevin Torek

Citizenship: United States of America

Residence: Meridian, ID

Post Office Address: 1718 N. Kastle Falls Ave.  
Meridian, ID 83642

Signature: K. T.  
Kevin Torek

Date: 6-3-04

Full Name of joint inventor number 2 : Kevin Shea

Citizenship: United States of America

Residence: Boise, ID

Post Office Address: 601 S. Sawtooth Ave.  
Boise, ID 83709

Signature: Kevin R. Shea  
Kevin Shea

Date: 6-4-04

Full Name of joint inventor number 3 : Niraj B. Rana

Citizenship: India

Residence: Boise, ID

Post Office Address: 2401 S. Apple Street  
# M 307  
Boise, ID 83706

Signature: Rana  
Niraj B. Rana

Date: 6-4-04

Full Name of joint inventor number 4 : Zhiping Yin

Citizenship: United States of America

Residence: Boise, ID

Post Office Address: 1462 East Regatta Street  
Boise, ID 83706

Signature: Zhiping Yin  
Zhiping Yin

Date: 6/3/04

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) it establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) it refutes, or is inconsistent with, a position the applicant takes in:
  - (i) opposing an argument of unpatentability relied on by the Office, or
  - (ii) asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



S/N 10/788,977

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Kevin Torek et al.

Examiner: Unknown

Serial No.: 10/788,977

Group Art Unit: 2822

Filed: February 27, 2004

Docket: 303.870US1

Title: SEMICONDUCTOR FABRICATION USING A COLLAR

**POWER OF ATTORNEY BY ASSIGNEE AND  
CERTIFICATE BY ASSIGNEE UNDER 37 CFR § 3.73(b)**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Micron Technology, Inc., assignee of the entire right, title and interest in the above-identified application by assignment attached hereto, hereby appoints the attorneys and agents of the firm of SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A., listed as follows:

Anglin, J. Michael	Reg. No. 24,916	Greaves, John N.	Reg. No. 40,362	Newton, Ruth H.	Reg. No. 26,657
Arora, Suneel	Reg. No. 42,267	Harris, Robert J.	Reg. No. 37,346	Nielsen, Walter W.	Reg. No. 25,539
Beeckman, Marvin L.	Reg. No. 38,377	Houston, Bruce E.	Reg. No. 55,280	Obermark, Thomas C.	Reg. No. 55,506
Bianchi, Timothy E.	Reg. No. 39,610	Jackson Huebsch, Katharine A.	Reg. No. 47,670	Padys, Danny J.	Reg. No. 35,635
Billion, Richard E.	Reg. No. 32,836	Jurkovich, Patti J.	Reg. No. 44,813	Parker, J. K.	Reg. No. 33,024
Black, David W.	Reg. No. 42,331	Kalis, Janal M.	Reg. No. 37,650	Peacock, Gregg A.	Reg. No. 45,001
Bohanek, Robert	Reg. No. 52,627	Klima-Silberg, Catherine I.	Reg. No. 40,052	Perdok Shonka, Monique M.	Reg. No. 42,989
Brennan, Thomas F.	Reg. No. 35,075	Kluth, Daniel J.	Reg. No. 32,146	Peret, Andrew R.	Reg. No. 41,246
Chadwick, Robin A.	Reg. No. 36,477	Lacy, Rodney L.	Reg. No. 41,136	Peterson, David C.	Reg. No. 47,857
Clark, Barbara J.	Reg. No. 38,107	Lundberg, Steven W.	Reg. No. 30,568	Price, Lucinda G.	Reg. No. 42,270
Clide, Timothy B.	Reg. No. 40,957	Maki, Peter C.	Reg. No. 42,832	Prout, William F.	Reg. No. 33,995
Dahl, John M.	Reg. No. 44,639	Malen, Peter L.	Reg. No. 44,894	Schumm, Sherry W.	Reg. No. 39,422
DeLizio, Andrew	Reg. No. 52,806	Mates, Robert E.	Reg. No. 35,271	Schwegman, Micheal L.	Reg. No. 25,816
Drake, Eduardo E.	Reg. No. 40,594	McCrackin, Ann M.	Reg. No. 42,858	Speier, Gary J.	Reg. No. 45,458
Embreton, Janet E.	Reg. No. 39,665	Mehrle, Joseph P.	Reg. No. 45,535	Steffey, Charles E.	Reg. No. 25,179
Forrest, Bradley A.	Reg. No. 30,837	Morris, Nicole N.	Reg. No. 55,467	Tang, Zhengnian	Reg. No. 55,666
Garrett, John R.	Reg. No. 27,888	Muller, Mark V.	Reg. No. 37,509	Tong, Viet V.	Reg. No. 45,416
Corrie, Gregory J.	Reg. No. 36,530	Nelson, A. James	Reg. No. 28,650	Woessner, Warren D.	Reg. No. 30,440

and also attorneys Russell D. Slifer (Reg. No. 39,838) and Michael L. Lynch (Reg. No. 30,871) of Micron Technology, Inc., as its attorneys with full power of substitution to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith.

The assignee certifies that the above identified assignment has been reviewed and to the best of the assignee's knowledge and belief, title is in the assignee.

Please direct all correspondence regarding this application to the following:

Schwegman, Lundberg, Woessner & Kluth, P.A.  
Attn: Gregg A. Peacock  
P.O. Box 2938  
Minneapolis, MN 55402

Telephone: (612) 371-2103  
Facsimile: (612) 339-3061

Dated: 6-7-2004

**MICRON TECHNOLOGY, INC.**

By: Michael L. Lynch

Name: Michael L. Lynch

Title: Chief Patent Counsel

## ASSIGNMENT

WHEREAS, We, Kevin Torek, residing at 1718 N. Kastle Falls Ave., Meridian, ID 83642, and Kevin Shea, residing at 601 S. Sawtooth Ave., Boise, ID 83709, and Niraj B. Rana, residing at 2401 S. Apple Street, # M 307, Boise, ID 83706, and Zhiping Yin, residing at 1462 East Regatta Street, Boise, ID 83706, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on February 27, 2004, which application was assigned U.S. patent application serial number 10/788,977, and is entitled SEMICONDUCTOR FABRICATION USING A COLLAR;

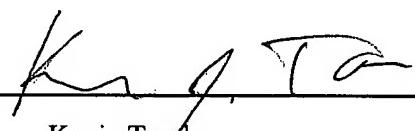
AND WHEREAS, Micron Technology, Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 8000 So. Federal Way, Boise, ID 83716-9632 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 3 day of  
June, 2004.

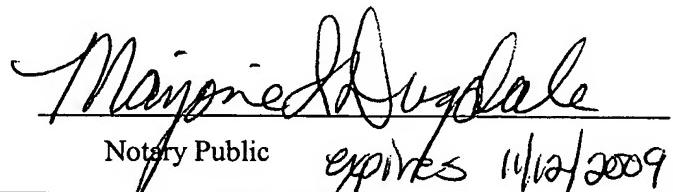


Kevin Torek

STATE OF Idaho)  
                        )ss  
COUNTY OF Ada)

On this 3rd day of June, 2004 before me personally appeared Kevin Torek, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Marjorie I. Dugdale  
Notary Public  
expires 11/12/2009

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of  
6 - 4 - 04, 2004.

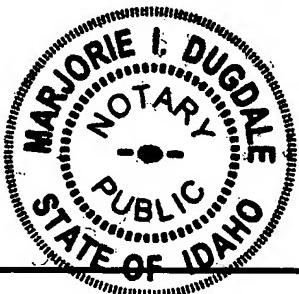
Kevin R Shea

Kevin Shea

STATE OF Idaho)  
COUNTY OF Ada)  
                                )ss

On this 4th day of June, 2004 before me personally appeared Kevin Shea, to  
me known and known to me to be the person described in and who executed the foregoing instrument,  
and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set  
forth.

[SEAL]



Marjorie I. Dugdale  
Notary Public  
expires 4/12/2009

IN TESTIMONY WHEREOF, I have hereunto set my hand this 04 day of  
June, 2004.

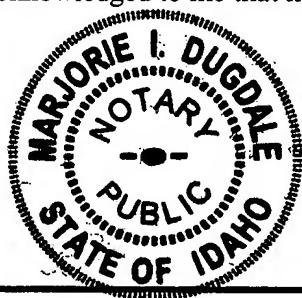


Niraj B. Rana

STATE OF Idaho)  
COUNTY OF Ada)  
ss

On this 4<sup>th</sup> day of June, 2004 before me personally appeared Niraj B. Rana,  
to me known and known to me to be the person described in and who executed the foregoing instrument,  
and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set  
forth.

[SEAL]



Marjorie I. Dugdale  
Notary Public  
expires 11/12/2009

IN TESTIMONY WHEREOF, I have hereunto set my hand this 3 day of  
June, 2004.

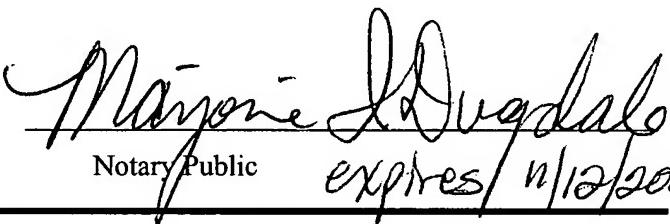
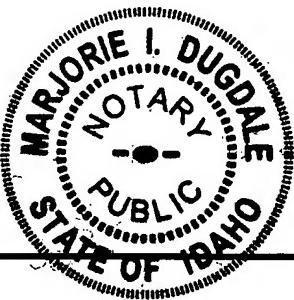


Zhiping Yin

STATE OF Idaho)  
COUNTY OF Ada)  
ss

On this 3rd day of June, 2004 before me personally appeared Zhiping Yin, to  
me known and known to me to be the person described in and who executed the foregoing instrument,  
and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set  
forth.

[SEAL]



Marjorie I. Dugdale  
Notary Public  
expires 11/12/2009